

ABSTRACT OF THE DISCLOSURE

A laser assisted machining method and device comprise a tool mount on which a laser head is disposed. A digital thermometer is disposed in a machining tool or on the tool mount for feeding data to a system controller. A laser is used to enable the blade of the machining tool to heat and soften a workpiece instantaneously. As the machining process is in progress, the chip is rapidly removed. The temperature of the tool tip is monitored by the digital thermometer for automatic control of the temperature of heating the workpiece by the laser, thereby keeping the temperature of the tool tip in a specific allowable range. The efficiency of the machining process and the surface precision are thus enhanced.